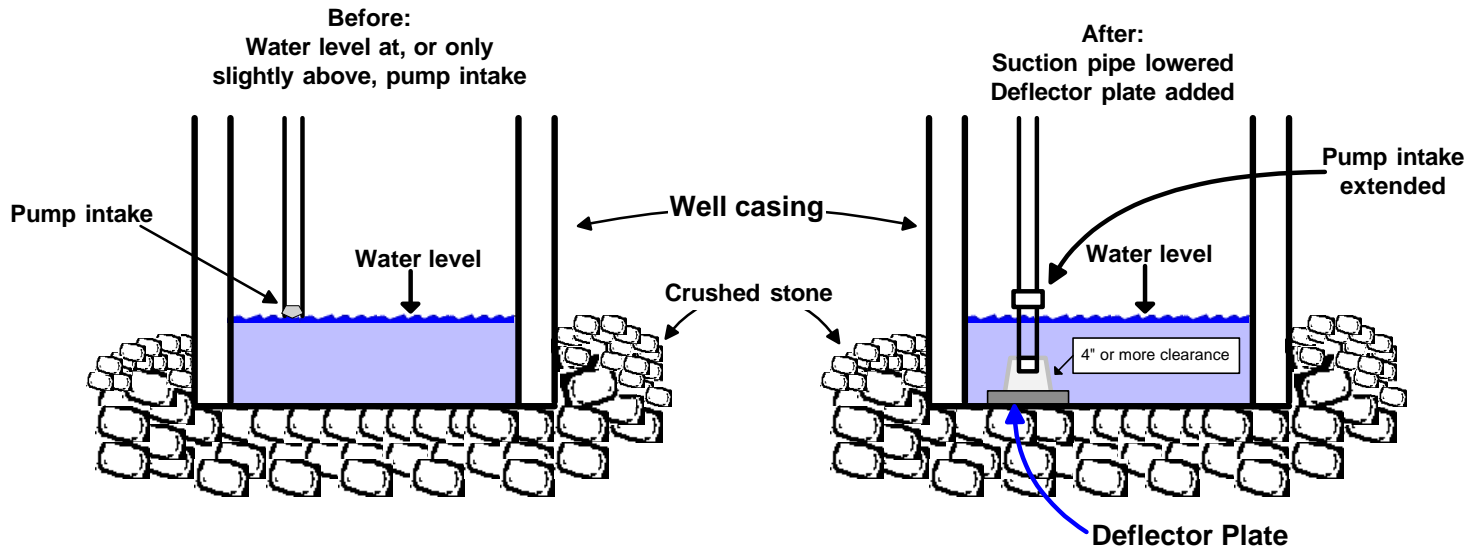


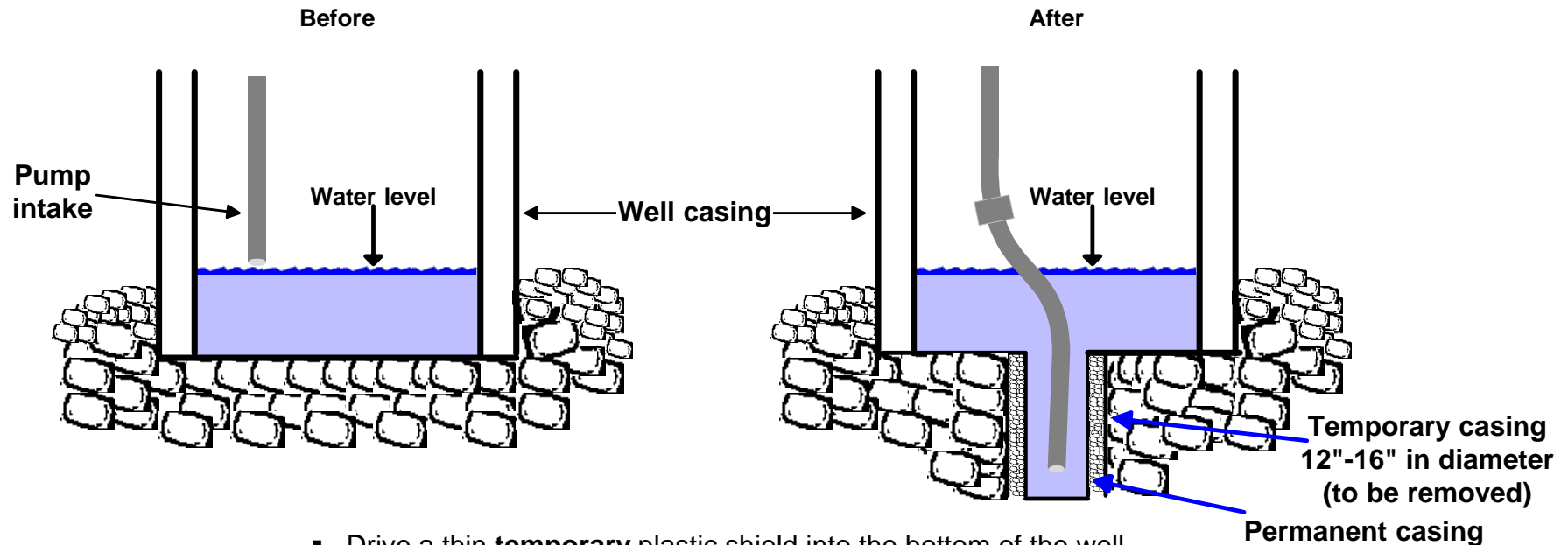
LOWERING THE PUMP INTAKE

Assumes well pump is in the basement.



DEEPENING A DUG WELL

Assumes well pump in the basement



- Drive a thin **temporary** plastic shield into the bottom of the well.
- Center in the middle of the well.
- Excavate interior of the shield by hand.
- Secure a permanent plastic casing that will fit within temporary case with a clearance of 2"-4".
- Drill many small holes in the permanent plastic casing.
- Place the plastic **permanent** casing in middle of the shield.
- Backfill the annular space between the two casings with pea stone.
- Tamp and compact the pea stone.
- Remove temporary shield carefully so as to not disturb the native soils under the full size concrete well casing.
- Reposition suction line to a new lower location in the deeper well.

Caution: Practical pump suction lift is approximately 20-25'.